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PTO/SB/08a (08-03)

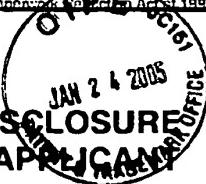
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Sheet

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of

12

Application Number	10/625,840
Filing Date	July 23, 2003
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0116.C1
Customer No.	36735

Submission Date

January 13, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JW	A1	US-2,167,338	07-25-1939	Murcell	
	A2	US-2,228,503	01-14-1941	Boyd, et al.	
	A3	US-2,370,832	03-06-1945	Baker	
	A4	US-2,379,800	07-03-1945	Hare	
	A5	US-2,414,719	01-21-1947	Cloud	
	A6	US-2,720,267	10-11-1955	Brown	
	A7	US-2,741,907	06-06-1997	Genender, et al.	
	A8	US-3,008,415	10-31-1961	Burns, et al.	
	A9	US-3,041,901	07-03-1962	Knights	
	A10	US-3,054,100	09-11-1962	Jones	
	A11	US-3,090,031	05-14-1963	Lord	
	A12	US-3,111,179	11-19-1963	Albers, et al.	
	A13	US-3,117,636	01-24-1964	Wilcox, et al.	
	A14	US-3,124,023	3-10-1964	Marquis, et al.	
	A15	US-3,131,769	05-05-1964	Rochemont	
	A16	US-3,193,116	07-06-1965	Kenneday, et al.	
	A17	US-3,419,079	12-31-1968	Current	
	A18	US-3,548,936	12-22-1970	Kilgore, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
JW	B1	CA 2 335 192	11-30-2001	Kozak		
	B2	DE 3 523 221	02-01-1987	Svetozar		
	B3	DE 3 918 132	12-14-1989	Eriksson		
	B4	EP 0 474 481	03-11-1992	Moody		
	B5	EP 0 087 373	08-31-1983	Plaquin		

Examiner

J.W. Wall

Date Considered

4/13/05

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* previously cited on PTO-1449 (12082003)

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PTO/SB/023 (03-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

of 12

Application Number	10/625,840
Filing Date	July 23, 2003
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0116.C1
Customer No.	36735

Submission Date January 13, 2005

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		Number-Kind Code ² (if known)				
<i>BW</i>	A19	US-3,552,507		01-05-1971	Brown	
	A20	US-3,552,848		01-05-1971	Van Wagner	
*	A21	US-3,666,505		03-02-1971	Martin	
	A22	US-3,602,302		08-31-1971	Kluth	
	A23	US-3,606,664		09-21-1971	Weiner	
*	A24	US-3,695,105		01-10-1972	Dickmann, et al.	
	A25	US-3,680,412		08-01-1972	Mayer, et al.	
*	A26	US-3,691,829		09-10-1972	Dyer	
	A27	US-3,696,332		10-03-1972	Dickson, Jr., et al.	
	A28	US-3,776,320		12-04-1973	Brown	
*	A29	US-3,776,321		12-04-1973	Marcus	
*	A30	US-3,849,684		11-19-1974	Weet	
*	A31	US-3,857,450		12-01-1974	Guler	
*	A32	US-3,849,687		10-21-1975	Gyongyeal, et al.	
	A33	US-4,054,332		10-18-1977	Bryan, Jr.	
	A34	US-4,095,885		06-20-1978	Denison, et al.	
	A35	US-4,127,927		12-05-1978	Hauk, et al.	
✓	A36	US-4,194,383		03-25-1980	Huzyak	

FOREIGN PATENT DOCUMENTS

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		Number-Kind Code ² (if known)					
<i>BW</i>	B6	EP 0 162 000		11-21-1985	Hamilton		
	B7	EP 0 171 144		02-12-1986	Stringfellow, et al.		
	B8	EP 0 285 386		10-05-1988	Haney		
	B9	EP 0 426 123		05-08-1991	Reis, et al.		
	B10	EP 0 525 247		02-03-1993	Willis		

Examiner

Date Considered

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* previously cited on PTO1449 (12082003)

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PTO/SB/083 (08-03)

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Sheet

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Application Number	10/625,840
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First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0116.C1
Customer No.	36735

Submission Date

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U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)				
<i>SLW</i>	A37	US-4,227,197		10-07-1980	Nimmo, et al.	<i>Class 3672 Sub 1</i>
	A38	US-4,241,878		12-30-1980	Underwood	
	A39	US-4,277,197		07-07-1981	Bingham	
	A40	US-4,280,380		07-28-1981	Eshghy	
	A41	US-4,311,195		01-19-1982	Mullins, II	
	A42	US-4,392,534		07-12-1983	Miida	
	A43	US-4,407,378		10-04-1983	Thomas	
	A44	US-4,427,063		01-24-1984	Skinner	
	A45	US-4,437,363		03-20-1984	Haynes	
	A46	US-4,445,734		05-01-1984	Cunningham	
	A47	US-4,449,596		05-22-1984	Boyadjieff	
	A48	US-4,494,424		01-22-1985	Bates	
	A49	US-4,500,646		07-16-1985	Boyadjieff, et al.	
	A50	US-4,570,706		02-19-1986	Pognat	
	A51	US-4,592,125		06-03-1986	Skene	
	A52	US-4,593,773		08-10-1986	Stevie	
	A53	US-4,605,268		08-12-1986	Meador	
	A54	US-4,621,798		12-02-1986	Boyadjieff	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)					
<i>SLW</i>	B11	EP 0 589 823		03-03-1994	Busink, et al.		
	B12	EP 0 659 975		06-28-1995	Nagaoka, et al.		
	B13	EP 0 790 386		08-20-1997	Newton, et al.		
	B14	EP 0 881 354		04-24-1998	Vercaemmen, et al.		
	B15	EP 0 962 384		12-08-1999	Poldervaart		

Examiner

D. Wall

Date Considered

4/13/05

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* previously cited on PTO 1449 (2082003)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4

of 12

Application Number	10/625,840
Filing Date	July 23, 2003
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0116.C1
Customer No.	36735

Submission Date

January 13, 2005

U.S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)				
✓ J.W.	A55	US-4,646,827		03-03-1987	Cobb	✓ C16 Sub
	A56	US-4,649,777		03-17-1987	Bryant	
	A57	US-4,667,752		05-26-1987	Berry, et al.	
	A58	US-4,676,312		06-30-1987	Mosing, et al.	
	A59	US-4,683,962		08-04-1987	True	
	A60	US-4,691,587		09-08-1987	Farrand, et al.	
	A61	US-4,709,599		12-01-1987	Buck	
	A62	US-4,709,766		12-01-1987	Bojadjeff	
	A63	US-4,738,145		04-19-1988	Vincent, et al.	
	A64	US-4,742,876		05-10-1988	Barthelemy, et al.	
	A65	US-4,759,239		07-26-1988	Hamilton, et al.	
	A66	US-4,765,401		08-20-1988	Bojadjeff	
	A67	US-4,773,689		09-27-1988	Wolters	
	A68	US-4,775,009		10-04-1988	Wittirsch, et al.	
	A69	US-4,781,359		11-01-1988	Matus	
	A70	US-4,788,544		11-29-1988	Howard	
	A71	US-4,791,367		12-20-1988	Krasnov	
	A72	US-4,793,422		12-27-1988	Krasnov	

FOREIGN PATENT DOCUMENTS

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		Number-Kind Code ² (if known)					
✓ J.W.	B16	EP 1 256 691		11-13-2002	Hawkins, et al.		
	B17	FR 2 841 293		12-26-2003	Bouygues Offshore		
	B18	GB 2 115 940		09-14-1983	Plaquin		
	B19	GB 2 224 481		09-05-1990	Voeten		
	B20	GB 2 275 486		04-15-1993	Eiane, et al.		

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First Named Inventor

David M. Haugen

Group Art Unit

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ZM	A73	US-4,806,968		01-31-1989	Shaw, et al.	<i>class Sub</i>
ZM W.	A74	US-4,806,928		02-21-1989	Veneruso	
ZM	A75	US-4,813,493		03-21-1989	Shaw, et al.	
ZM	A76	US-4,836,064		06-06-1989	Gates	
ZM	A77	US-4,867,236		09-19-1989	Haney, et al.	
ZM	A78	US-4,878,519		11-07-1989	Shaw, et al.	
	A79	US-4,901,069		02-13-1990	Veneruso	
	A80	US-4,936,382		06-26-1990	Thomas	
	A81	US-4,962,579		10-16-1990	Moyer, et al.	
ZM	A82	US-5,009,200		04-23-1991	Bailey, et al.	
ZM	A83	US-5,113,897		08-06-1991	Wille	
	A84	US-5,141,063		08-25-1992	Quesenbury	
	A85	US-5,176,518		01-05-1993	Hordijk, et al.	
	A86	US-5,191,932		03-09-1993	Seefried, et al.	
ZM	A87	US-5,224,540		07-06-1993	Streich, et al.	
ZM	A88	US-5,233,742		08-10-1993	Gray, et al.	
ZM	A89	US-5,245,265		09-14-1993	Clay	
ZM	A90	US-5,254,700		10-12-1993	Richardson	

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		Number-Kind Code ² (if known)					
ZM	B21	GB 2 294 715		08-05-1996	Tibbits		
ZM	B22	GB 2 349 401		11-01-2000	Roberts, et al.		
ZM	B23	GB 2 352 747		07-02-2001	Davis, et al.		
ZM	B24	GB 2 357 530		06-27-2001	Schulze-Beckinghausen		
ZM	B25	GB 2 372 765		09-04-2002	Head		

Examiner

BuWalt

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↓	A92	US-5,305,839		04-26-1994	Kalsi, et al.	
↓	A93	US-5,332,043		07-26-1994	Ferguson	
↓	A94	US-5,251,767		10-04-1994	Stognes, et al.	
↓	A95	US-5,600,081		02-14-1995	Berry	
↓	A96	US-5,394,823		03-07-1995	Lenze	
*	A97	US-5,432,279		07-18-1995	Larsen, et al.	
↓	A98	US-5,494,122		02-27-1996	Larsen, et al.	
*	A99	US-5,394,823		03-26-1996	Berry	
↓	A100	US-5,508,084		04-02-1996	Clanton	
↓	A111	US-5,540,279		07-30-1996	Branch, et al.	
↓	A112	US-5,542,472		08-06-1996	Pringle, et al.	
↓	A113	US-5,542,473		08-06-1996	Pringle, et al.	
↓	A114	US-5,542,473		09-10-1996	Smith, Jr., et al.	
↓	A115	US-5,542,473		11-26-1996	Albright, et al.	
↓	A116	US-5,616,184		07-09-1997	Trevanti	
↓	A117	US-5,706,894		01-13-1998	Hawkins, III	
↓	A118	US-5,791,440		08-11-1998	Gastille, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Number-Kind Code ² (if known)					
ZW	B26	GB 709 365		05-19-1954	Standard Oil Development		
	B27	GB 716 761		10-13-1954	Standard Oil Development		
	B28	GB 881 358		11-01-1961	Kammerer, et al.		
✓	B29	GB 2 350 137		11-22-2000	Baugh, et al.		
✓	B30	RU 2 079 633		05-20-1997	Abdrakhmanov		

Examiner

B.Wal

Date Considered

1/13/05

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Previously cited 1449 (12082003)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 7

of 12

Application Number	10/625,840
Filing Date	July 23, 2003
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0116.C1
Customer No.	36735

Submission Date January 13, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A110	US-5,803,182	09-08-1998	Merklebach	class 222 sub
3.W.	A120	US-5,813,456	09-29-1998	Milner, et al.	
	A121	US-5,836,395	11-17-1998	Burke	
3.W.	A122	US-5,839,515	11-24-1998	Yuan, et al.	
	A123	US-5,850,877	12-22-1998	Albright, et al.	
	A124	US-5,907,664	05-25-1999	Wang, et al.	
	A125	US-5,909,700	06-08-1999	Cashier, et al.	
3.W.	A126	US-5,971,086	10-26-1999	Bee, et al.	
	A127	US-5,984,007	11-16-1999	Yuan, et al.	
	A128	US-5,988,273	11-23-1999	Monjure, et al.	
	A129	US-6,056,060	05-02-2000	Abrams, et al.	
	A130	US-6,070,500	06-06-2000	Blaak, et al.	
3.W.	A131	US-6,079,498	06-27-2000	Lima, et al.	
	A132	US-6,079,509	06-27-2000	Bee, et al.	
	A133	US-6,142,545	11-07-2000	Pennman, et al.	
	A134	US-6,161,617	12-19-2000	Gjedbo	
	A135	US-6,173,777	01-16-2001	Mullins	
	A136	US-6,199,641	03-19-2001	Downie, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)				
	B31	WO 00/39429	07-06-2000	Pietras		
	B32	WO 00/39430	07-06-2000	Pietras		
3.W.	B33	WO 00/46484	08-10-2000	Van Buren, et al.		
	B34	WO 00/66879	11-09-2000	Hawkins, et al.		
	B35	WO 02/081863	10-17-2002	Simpson, et al.		

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4/13/05

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I previously cited on 1449 (12082003)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

12

Application Number

10/625,840

Filing Date

July 23, 2003

First Named Inventor

David M. Haugen

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0116.C1

Customer No.

36735

Submission Date

January 13, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
<i>M.W.</i>	A137	US-6,223,823		05-01-2001	Head	<i>X (as 1)</i> Sub
	A138	US-6,227,587		05-08-2001	Terral	
	A139	US-6,275,938		08-14-2001	Bond, et al.	
	A140	US-6,290,432		09-18-2001	Exley, et al.	
	A141	US-6,305,469		10-23-2001	Coenen, et al.	
	A142	US-6,309,002		10-30-2001	Bouligny	
	A143	US-6,349,764		02-26-2002	Adams, et al.	
	A144	US-6,360,633		03-26-2002	Pietras	
	A145	US-6,367,566		04-09-2002	Hill	
	A146	US-6,374,506		04-23-1993	Clay	
	A147	US-6,392,317		05-21-2002	Hall, et al.	
	A148	US-6,429,784		08-06-2002	Beique, et al.	
	A149	US-6,431,626		03-13-2002	Bouligny	
	A150	US-6,446,723		09-10-2002	Ramons, et al.	
	A151	US-6,622,796		09-23-2003	Pietras	
	A152	US-6,648,075		11-18-2003	Badrak, et al.	
	A153	US-6,688,394		02-10-2004	Ayling	
	A154	US-6,691,801		02-17-2004	Juhasz, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)					
<i>M.W.</i>	B36	WO 02/44601		06-06-2002	Appleford, et al.		
	B37	WO 03/087525		10-23-2003	Vincent, et al.		
	B38	WO 93/07358		04-15-1993	Eiane, et al.		
	B39	WO 96/18799		06-20-1996	Stokka		
	B40	WO 98/05844		02-12-1998	Stokka		

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M.W.

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

12

Application Number	10/625,840
Filing Date	July 23, 2003
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0116.C1
Customer No.	36735

Submission Date

January 13, 2005

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
ZW	A155	US-6,698,595		03-02-2004	Norell, et al.	
	A156	US-6,725,838		04-27-2004	Pietras	
ZW	A157	US-6,742,596		06-01-2004	Haugen	
	A158	US-6,742,606		06-01-2004	Metcalfe, et al.	
	A159	US-2002/0070842		04-17-2003	Bailey, et al.	
	A160	US-2002/0108748		08-15-2002	Keyes	
	A161	US-2003/0029641		02-13-2003	Meehan	
	A162	US-2003/0056947		03-27-2003	Cameron	
	A163	US-2003/0164250		09-04-2003	Wardley	
	A164	US-2003/0164251		09-04-2003	Tulloch	
	A165	US-2003/0173090		09-18-2003	Cook, et al.	
	A166	US-2003/0213598		11-20-2003	Hughes	
	A167	US-2004/0003944		01-08-2004	Vincent, et al.	
	A168	US-2004/000405		01-01-2004	Fournier, Jr., et al.	
	A169	US-2004/0011534		01-22-2004	Simonds, et al.	
	A170	US-2004/0060697		04-01-2004	Tilton, et al.	
	A171	US-2004/0069500		04-15-2004	Haugen	
✓	A172	US-2004/0079533		04-29-2004	Buytaert, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Number-Kind Code ² (if known)					
*	B41	WO 98/44322		03-19-1998	Ojedobio		
*	B42	WO 98/55948		07-30-1998	Pietras		
*	B43	WO 99/35368		07-15-1999	Lohbeck, et al.		
*	B44	WO 99/44485		08-19-1999	Pietras		
*	B45	WO 99/58810		11-16-1999	Abrahamsen, et al.		

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* previously cited PTO-1449 (06/10/2004)



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

10

of

12

Application Number	10/625,840
Filing Date	July 23, 2003
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0116.C1
Customer No.	36735
Submission Date	January 13, 2005

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		Number-Kind Code ² (if known)			
ZW	A173	US-2004/0108142		06-10-2004	Vail, III
	A174	US-2004/0112646		06-17-2004	Vail
	A175	US-2004/0118613		06-24-2004	Vail
	A176	US-2004/0123984		07-01-2004	Vail
	A177	US-2004/0124015		07-01-2004	Valle, et al.
	A178	US-2004/0129456		07-08-2004	Vail
	A179	US-2004/0140128		07-22-2004	Vail
	A180	US-2004/0173358		09-09-2004	Haugen
	A181	US-2004/0216925		11-04-2004	Metcalfe, et al.
	A182	US-2004/0112646		06-17-2004	Vail
✓	A183	US-Re 34,063		09-15-1992	Vincent, et al.
	A184	US-			
	A185	US-			
	A186	US-			
	A187	US-			
	A188	US-			
	A189	US-			
	A190	US-			

FOREIGN PATENT DOCUMENTS

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		Number-Kind Code ² (if known)					
ZW	B46	FR 2741907		06-06-1997	Leighton		
	B47						
	B48						
	B49						
	B50						

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by Wal

Date Considered

4/13/05

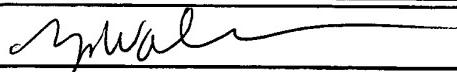
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Substitute for form 1449B/PTO				Application Number	10/625,840
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	July 23, 2003
(Use as many sheets as necessary)				First Named Inventor	David M. Haugen
				Group Art Unit	3672
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0116.C1
				Customer No.	36735
Sheet	11	of	12	Submission Date	January 13, 2005

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		
Z.W.		DETLEF HAHN, FRIEDHELM MAKOHL, and LARRY WATKINS, Casing-While Drilling System Reduces Hole Collapse Risks, Offshore, Pages 54, 56, and 59, February 1998		
		YAKOV A. GELFGAT, MIKHAIL Y. GELFGAT and YURI S. LOPATIN, Retractable Drill Bit Technology – Drilling Without Pulling Out Drillpipe, Advanced Drilling Solutions Lessons From the FSU; June 2003; Vol. 2, pps. 351-464		
		TOMMY WARREN, SPE, BRUCE HOUTCHENS, SPE, GARRET MADELL, SPE, Directional Drilling With Casing, SPE/IADC 79914, Tesco Corporation, SPE/IADC Drilling Conference 2003		
		LaFleur Petroleum Services, Inc., "Autoseal Circulating Head," Engineering Manufacturing, 1992, 11 Pages		
		Valves Wellhead Equipment Safety Systems, W-K-M Division, ACF Industries, Catalog 80, 1980, 5 Pages		
		Canrig Top Drive Drilling Systems, Harts Petroleum Engineer International, February 1997, 2 Pages		
		The Original Portable Top Drive Drilling System, TESCO Drilling Technology, 1997		
		MIKE KILLALEA, Portable Top Drives: What's Driving The Market?, IADC, Drilling Contractor, September 1994, 4 Pages		
✓		500 or 650 ECIS Top Drive, Advanced Permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages		

Examiner



Date Considered

4/13/05

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PTO/SB/032 (08-03)

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Substitute for form 1449B/PTO		Application Number	10/625,840
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	July 23, 2003
		First Named Inventor	David M. Haugen
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0116.C1
		Customer No.	36735
Sheet	12	of	12
		Submission Date	January 13, 2005
(Use as many sheets as necessary)			

NON-PATENT LITERATURE DOCUMENTS

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S. Wal

Date Considered

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Sheet

1

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1

Application Number

10/625,840

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First Named Inventor

David M. Haugen

Group Art Unit

3672

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Submission Date

U.S. PATENT DOCUMENTS			
Examiner Initials*	Cite No. ¹	Document Number	Publication Date
ZHN	A2	6,423,241	09-02-2002
	A1	6,536,520	03-25-2003
✓	A3	6,725,938	04-27-2004
	A4	US-	
	A5	US-	
	A6	US-	
	A7	US-	
	A8	US-	
	A9	US-	
	A10	US-	
	A11	US-	
	A12	US-	
	A13	US-	
	A14	US-	
	A15	US-	
	A16	US-	
	A17	US-	
	A18	US-	

Pages, Columns, Lines, Where
Relevant Passages or Relevant
Figures Appear
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	B1				
	B2				
	B3				
	B4				
	B5				

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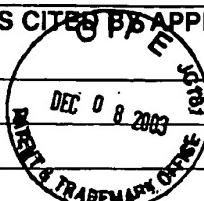
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. WEAT/0116.C1		Serial No. 10/625,840
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant David M. Haugen	Confirmation No.: 8946	
(Use several sheets if necessary)					Filing Date July 23, 2003	Group 3672	
U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
ZW	A1	6,431,626	03-13-2002	Bouligny	294	86.25	
	A2	6,412,554	07-02-2002	Allen et al.	166	80.1	
	A3	6,360,633	03-26-2002	Pietras	81	57.34	
	A4	6,349,764	02-26-2002	Adams et al.	166	77.53	
	A5	6,311,792	11-06-2001	Scott et al.	175	162	
	A6	6,309,002	10-30-2001	Bouligny	294	86.25	
	A7	6,199,641	01-13-2001	Downie et al.	173	55	
	A8	6,070,500	06-06-2000	Dlask et al.	81	57.33	
	A9	6,056,060	6,000,472	Albright et al.	166	380	
	A10	6,000,472	12-14-1999	Albright et al.	166	380	
	A11	5,971,079	10-26-1999	Mullins	166	387	
	A12	5,909,768	06-08-1999	Castille et al.	166	77.1	
	A13	5,836,395	11-17-1998	Budde	166	321	
Foreign Patent Documents							
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation
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ZW	B1	WO 00/39430	07-06-2000	WIPO	E21B	19/16	<input type="checkbox"/> <input checked="" type="checkbox"/>
	B2	WO 00/39429	07-06-2000	WIPO	E21B	19/16	<input type="checkbox"/> <input checked="" type="checkbox"/>
	B3	WO 00/11311	03-02-2000	WIPO	E21B	19/16	<input type="checkbox"/> <input checked="" type="checkbox"/>
	B4	WO 00/11310	03-02-2000	WIPO	E21B	19/16	<input type="checkbox"/> <input checked="" type="checkbox"/>
	B5	WO 00/11309	03-02-2000	WIPO	E21B	19/16	<input type="checkbox"/> <input checked="" type="checkbox"/>
*Examiner Initial Including Author, Title, Date, Pertinent Pages, Etc.							
ZW	C1	Autoseal Circulating Head; LaFleur Petroleum Services; 1992					
	C2	Valves, Wellhead Equipment, Safety System; W-K-M Division, ACF Industries, 1980					
	C3	Top Drive Drilling Systems, Canrig, Feb. 97 in Hart's Petroleum Engineer					
Examiner	<i>Z. Wahl</i>				Date Considered <u>4/13/05</u>		
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U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
<i>3lw</i>	A14	5,803,191	09-08-1998	Mackintosh	175	170	
	A15	5,791,410	08-11-1998	Castille et al.	166	77.1	
	A16	5,735,348	04-07-1998	Hawkins, III	166	285	
	A17	5,645,131	07-08-1997	Trevisani	175	171	
	A18	5,584,343	12-17-1996	Coone	166	387	
	A19	5,577,566	11-26-1996	Albright et al.	175	321	
	A20	5,553,672	09-10-1996	Smith, Jr. et al.	166	382	
	A21	5,503,234	04-02-1996	Clanton	175	52	
	A22	5,501,286	03-26-1996	Berry	175	52	
	A23	5,433,279	07-18-1995	Tessari et al.	173	213	
	A24	5,388,651	02-14-1995	Berry	175	85	
<i>✓</i>	A25	5,351,767	10-04-1994	Stogner et al.	175	162	
<i>✓</i>	A26	5,297,833	03-29-1994	Willis, et al.	294	102.2	
Foreign Patent Documents							
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation
<i>3lw</i>	B6	WO 00/05483	02-03-2000	WIPO	E21B	19/16	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	B7	2 357 530	06/27/2001	GB	E21B	19/07	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	B8	WO 98/32948	07-30-1998	WIPO	E21B	19/16	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	B9	WO 98/05844	02-2-1998	WIPO	E21B	19/16	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>✓</i>	B10	EP 0 659 975	06-28-1995	EP	E21B	43/08	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
OTHER ART							
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.					
<i>3lw</i>	C4	More Portable Top Drive Installations, Tesco Drilling Technology, 1997					
	C5	Portable Top Drives, Drilling Contractor, Cover & 3pp. Sept. 1994					
<i>✓</i>	C6	500 or 650 HCIS TOP DRIVE, Tesco Drilling Technology, 4/98					
Examiner	<i>3lw</i>			Date Considered			<i>4/13/05</i>
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(Use several sheets if necessary) Examiner Unknown					Filing Date July 23, 2003	Group 3672		
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
<i>JW</i>	A27	5,282,653	02-01-1994	LaFleur et al.	285	110		
	A28	5,255,751	10-26-1993	Stogner	175	203		
	A29	5,251,709	10-12-1993	Richardson	175	220		
	A30	5,191,939	03-09-1993	Stokley	166	379		
	A31	5,036,927	08-06-1991	Willis	175	162		
	A32	5,009,265	04-23-1991	Bailey et al.	166	118		
	A33	4,997,042	03-05-1991	Jordan et al.	166	379		
	A34	4,878,546	11-07-1989	Shaw et al.	173	163		
	A35	4,867,236	09-19-1989	Haney et al.	166	77.5		
	A36	4,836,064	06-06-1989	Slator	81	57.18		
	A37	4,813,493	03-21-1989	Shaw et al.	173	164		
<i>V</i>	A38	4,800,968	01-31-1989	Shaw et al.	175	85		
<i>V</i>	A39	4,793,422	12-27-1988	Krasnov	175	57		
Foreign Patent Documents								
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<i>JW</i>	B11	WO 96/18799	06-20-1996	WIPO	E21B	19/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>J</i>	B12	WO 93/07358	04-15-1993	WIPO	E21B	37/00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>J</i>	B13	0 525 247 A1	02-03-1993	EP	E21B	3/02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>V</i>	B14	GB 2 224 481	09-05-1990	UK	B66C	1/56	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>V</i>	B15	0 171 144 A1	02-12-1986	UK	B66C	1/56	<input type="checkbox"/>	<input checked="" type="checkbox"/>
OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
<i>JW</i>	C7	500 or 650 ECIS TOP DRIVE, Tesco Drilling Technology, 4/98						
<i>JW</i>	C8	Product information, (Sections 1-10) Canrig, 1996						
	C9							
Examiner	<i>J. Mat</i>				Date Considered	<i>7/13/05</i>		
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(Use several sheets if necessary)					Filing Date July 23, 2003	Group 3672
	Examiner <i>B. Walz</i>	Unknown				

**U.S. Patent Documents**

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
<i>BW</i>	A40	4,791,997	12-20-1988	Krasnov	175	57	
	A41	4,773,689	09-27-1988	Wolters	294	88	
	A42	4,765,401	08-23-1988	Boyadjieff	166	77.53	
	A43	4,742,876	05-10-1988	Barthelemy et al.	175	7	
	A44	4,762,187	08-09-1988	Haney	175	171	
	A45	4,759,239	07-26-1988	Hamilton et al.	81	57.34	
	A46	4,709,599	12-01-1987	Buck	81	57.18	
	A47	4,683,962	08-04-1987	True	173	163	
	A48	4,676,312	06-30-1987	Mosing et al.	166	77	
	A49	4,649,777	03-17-1987	Buck	81	57.19	
	A50	4,625,796	12-02-1986	Boyadjieff	166	77.5	
<i>✓</i>	A51	4,605,077	08-12-1986	Boyadjieff	175	85	
	A52	4,604,724	08-05-1986	Shaginian et al.	700	213	

Foreign Patent Documents

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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<i>BW</i>	B16	EP 01 62000A1	11-21-1985	EP	E21B	19/06	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B17	WO 98/11322	09-19-1998	WIPO	E21B	19/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B18	0 285 386	10-05-1988	EP	E21B	19/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>✓</i>	B19	WO 99/41485	08-19-1999	WIPO	E21B	19/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Examiner *B. Walz* Date Considered *9/13/05*

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U.S. Patent Documents

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<i>Bjw</i>	A53	4,593,773	06-10-1986	Skeie	175	85	
	A54	4,570,706	02-18-1986	Pugnet	166	77.5	
	A55	4,529,045	07-16-1985	Bojadjieff et al.	173	164	
	A56	4,494,424	01-22-1985	Bates	81	57.18	
	A57	4,449,596	05-22-1984	Bojadjieff	175	85	
	A58	4,437,363	03-20-1984	Haynes	81	57.18	
	A59	4,320,915	03-23-1982	Abbott et al.	294	96	
	A60	4,100,968	07-18-1978	Delano	166	315	
	A61	3,913,687	10-21-1975	Gyongyosi et al.	175	85	
	A62	3,857,450	12-31-1974	Guier	175	85	
	A63	3,848,684	11-19-1974	West	175	195	
	A64	3,776,991	12-04-1973	Marcus	264	89	
<i>✓</i>	A65	3,766,320	10-16-1973	Homme	179	5R	

Foreign Patent Documents

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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	C13	
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	Examiner <i>ZHW</i>	Unknown				

**U.S. Patent Documents**

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<i>ZHW</i>	A66	3,747,675	07-24-1973	Brown	166	237	
	A67	3,691,825	09-19-1972	Dyer	73	136A	
	A68	3,635,105	01-18-1972	Dickmann et al.	81	57.18	
	A69	3,570,598	03-16-1971	Johnson	166	178	
	A70	3,566,505	03-02-1971	Martin	29	200	
	A71	3,380,528	04-30-1968	Timmons	166	14	
	A72	3,193,116	07-06-1965	Kennedy et al.	214	2.5	
	A73	3,041,901	07-03-1962	Knights	81	53	
	A74	1,917,135	07-04-1933	Littell	294	86.15	
	A75	2002/0134555 A1		Allen et al.	166	377	12-07-2001
<i>V</i>	A76	2001/0042625		Appleton	166	379	07-30-2001
	A77						
	A78						

Foreign Patent Documents

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	C16	
	C17	
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Examiner *ZHW* Date Considered *4/13/05*

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